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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/785,046		02/25/2004	Wilhelmus Josephus Box	081468-0308294	8581
909	7590	02/10/2005		EXAMINER	
		THROP, LLP	KIM, PETER B		
P.O. BOX 10500 MCLEAN, VA 22102				ART UNIT	PAPER NUMBER
				2851	
				DATE MAILED: 02/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A'H
	Application No.	Applicant(s)
Office Action Summany	10/785,046	BOX, WILHELMUS JOSEPHUS
Office Action Summary	Examiner	Art Unit
The MAII INO DATE of this communication and	Peter B. Kim	2851
The MAILING DATE of this communication app Period for Reply	pears on the cover sneet with t	ne correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS , cause the application to become ABANI	be timely filed O) days will be considered timely. From the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.	
Disposition of Claims		
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
9) The specification is objected to by the Examine	er.	
10)☐ The drawing(s) filed on is/are: a)☐ acc		
Applicant may not request that any objection to the		•
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Appl rity documents have been red u (PCT Rule 17.2(a)).	ication No. <u>10/307,485</u> . ceived in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sum Paper No(s)/M	mary (PTO-413) lail Date
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>22004</u>. 		mal Patent Application (PTO-152)

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Art Unit: 2851

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Holzer et al. (Holzer) (6,132,676).

Holzer discloses a method of manufacturing a component that will experience a thermal load and will be operated at a mean operating temperature (col. 5, lines 38-49) comprising selecting a material having a coefficient of thermal expansion having a zero-crossing at a first temperature; manufacturing the component using the selected material at a second temperature, wherein the first temperature is between the second temperature and the mean operating temperature, so as to minimizing deformation of the component at the mean operating temperature (Fig. 5) (col. 9, lines 18-59). Holzer discloses the material having a low coefficient of thermal expansion having a substantially zero coefficient of thermal expansion (abstract). Holzer discloses the material having cermic (col. 3, lines 4-41).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 8-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis, Jr. et al. (Davis) (6,465,272) in view of Holzer et al. (Holzer).

Davis discloses a method of manufacturing an optical element, a device manufacturing method and a lithographic projection apparatus, comprising: a radiation system constructed and arranged to provide a projection beam of radiation (40); a support structure (24) constructed and arranged to support a patterning device, the patterning device constructed and arranged to pattern the projection beam according to a desired pattern; a substrate table to hold a substrate (56); a projection system (54) constructed and arranged to project the patterned beam onto a target portion of the substrate, wherein at least one component (26) in the apparatus that in use experiences a heat load is made of a low coefficient of expansion material having a coefficient of thermal expansion having a zero-crossing at a temperature between a manufacturing temperature and an operating temperature of that component (col. 5, lines 8-49). However Davis does not disclose the zero-crossing occurring between the manufacturing temperature and the mean operating temperature. Holzer discloses a method of manufacturing a component and a component that will experience a thermal load and will be operated at a mean operating temperature (col. 5, lines 38-49) comprising selecting a material having a coefficient of thermal expansion having a zero-crossing at a first temperature; manufacturing the component using the selected material at a second temperature, wherein the first temperature is between the second temperature and the mean operating temperature, so as to minimizing deformation of the component at the mean operating temperature (Fig. 5) (col. 9, lines 18-59). Holzer discloses the material having a low coefficient of thermal expansion having a substantially zero coefficient of thermal expansion (abstract). Holzer discloses the material having cermic (col. 3, lines 4-41).

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Therefore, it would have been obvious to one of ordinary skill in the art to provide the component with the coefficient of thermal expansion so that the zero-crossing occurs before reaching the mean operating temperature to the invention of Davis in order to obtain material that is low or zero coefficient of thermal expansion and high thermal conductivity as taught by Holzer in col. 4, lines 13-27.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter B. Kim whose telephone number is (571) 272-2120. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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